

What is claimed is:

1. An aluminum alloy for rapidly cooled welding, the alloy comprising by weight:

Mg: 0.4 to 7.0 %;

Cu: 0.05 to 1.0 %;

at least one kind of Mn: 0.8 to 2.5 %, Cr: 0.35 to 2.0 % and Fe: 0.7 to 1.5%; and

the balance of Al and inevitable impurities.

2. An aluminum alloy for rapidly cooled welding according to claim 1, wherein the alloy contains at least one kind of V: 0.5 to 1.0 wt%, Zr: 2.0 to 2.5 wt% and Ni: 3.0 to 3.5 wt%.

3. A welding method for an aluminum alloy recited in claim 1, the method comprising:

a step of welding; and

a step of cooling welded portion at 500 to 10000°C/s of an average cooling rate from the melting point to 200°C.